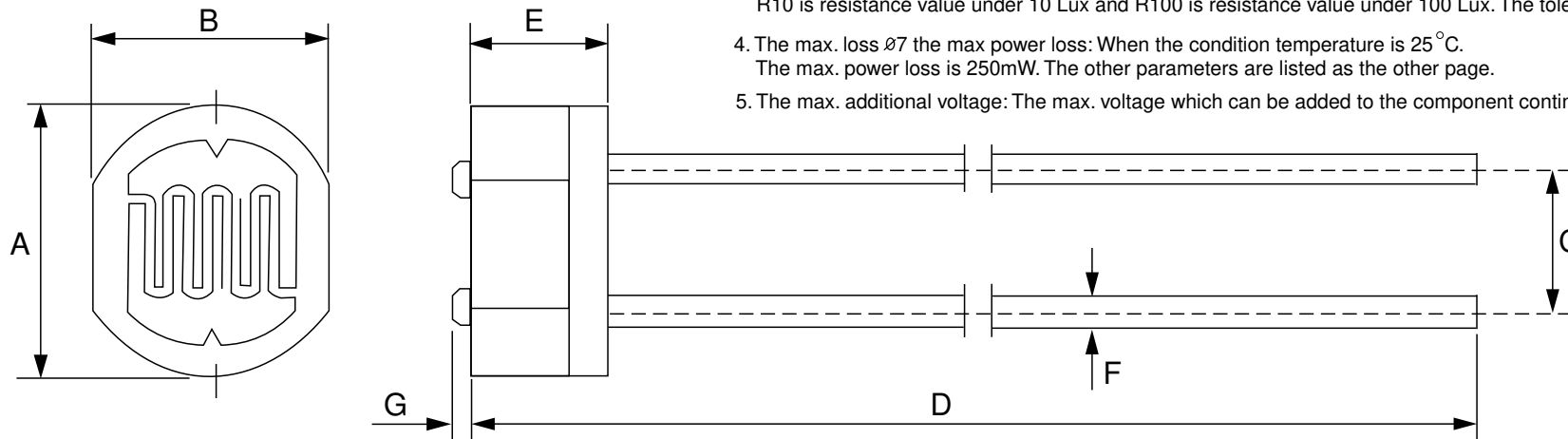


MEC

TEST TERMS AND DIMENSIONS

1. Luminance Resistance: After 2 hours exposure under illumination 400~600 Lux, then to test with 10 Lux and 100 Lux under standard illuminant A (chroma temperature 2854K).
2. Dark Resistance: Resistance value when the light is turned off for ten seconds. (0 Lux)
3. γ Represents the standard value under both 10 Lux and 100 Lux : $\gamma = \log(R10/R100) / \log(100/10) = \log\left(\frac{R10}{R100}\right)$
R10 is resistance value under 10 Lux and R100 is resistance value under 100 Lux. The tolerance for γ is ± 0.1 .
4. The max. loss $\varnothing 7$ the max power loss: When the condition temperature is 25°C.
The max. power loss is 250mW. The other parameters are listed as the other page.
5. The max. additional voltage: The max. voltage which can be added to the component continuously.



| SERIES | A | B | C | D | E | F | G |
|--------------------------------|----------------|----------------|----------------|------------|---------------|----------------|----------------|
| MLG 44 Series $\varnothing 4$ | 4.3 \pm 0.1 | 3.6 \pm 0.1 | 2.5 \pm 0.05 | 36 \pm 2 | 1.8 \pm 0.1 | 0.4 \pm 0.05 | 0.2 \pm 0.05 |
| MLG 55 Series $\varnothing 5$ | 5.1 \pm 0.2 | 4.3 \pm 0.2 | 3.4 \pm 0.1 | 36 \pm 2 | 1.8 \pm 0.1 | 0.5 \pm 0.05 | 0.2 \pm 0.1 |
| MLG 75 Series $\varnothing 7$ | 7.1 \pm 0.2 | 5.8 \pm 0.2 | 5.0 \pm 0.1 | 36 \pm 2 | 1.8 \pm 0.1 | 0.5 \pm 0.05 | 0.2 \pm 0.1 |
| MLG 12 Series $\varnothing 12$ | 11.8 \pm 0.2 | 10.6 \pm 0.2 | 9.0 \pm 0.1 | 36 \pm 2 | 1.8 \pm 0.1 | 0.5 \pm 0.05 | 0.2 \pm 0.05 |

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C d S (PHOTO RESISTOR) SPECIFICATIONS

SELECTION GUIDE

| MODEL NO. | DIMENSION | VOLTAGE APPLIED | POWER DISSIPATION | AMBIENT TEMPERATURE | LIGHT RESISTANCE | | DARK RESISTANCE | γ 100 10 | PEAK SENSITIVITY WAVELENGTH | RISE RESPONSE TIME | FALL RESPONSE TIME |
|------------|-----------|----------------------|-------------------|---------------------|----------------------|-----------------------|-----------------|-----------------------|-----------------------------|---------------------|---------------------|
| | mm | V _{dc} max. | mW max. | °C | 10 Lux (k Ω) | 100 Lux (k Ω) | (M Ω) | | (nm) | t _r (ms) | t _f (ms) |
| MLG 4406 | 4 | 150 | 90 | -30 ~ +70 | 4 - 6 | ≤ 1 | 0.5 | 0.6 | 560 | 30 | 40 |
| MLG 4416 | 4 | 150 | 90 | -30 ~ +70 | 5 - 10 | 1 - 2 | 1.0 | 0.6 | 560 | 30 | 40 |
| MLG 4427 | 4 | 150 | 100 | -30 ~ +70 | 10 - 20 | 2 - 4 | 2.0 | 0.7 | 560 | 30 | 30 |
| MLG 4437 | 4 | 150 | 100 | -30 ~ +70 | 20 - 30 | 4 - 6 | 5.0 | 0.7 | 560 | 20 | 30 |
| MLG 4447 | 4 | 150 | 100 | -30 ~ +70 | 30 - 50 | 6 - 10 | 10.0 | 0.8 | 560 | 20 | 30 |
| MLG 4448 | 4 | 150 | 100 | -30 ~ +70 | 50 - 100 | 10 - 20 | 20.0 | 0.8 | 560 | 20 | 30 |
| MLG 4458 | 4 | 150 | 100 | -30 ~ +70 | 100 - 200 | 20 - 35 | 20.0 | 0.8 | 560 | 20 | 30 |
| MLG 5506 | 5 | 100 | 90 | -30 ~ +70 | 4 - 6 | ≤ 1 | 0.2 | 0.6 | 540 | 30 | 40 |
| MLG 5516 | 5 | 100 | 90 | -30 ~ +70 | 5 - 10 | 1 - 2 | 0.5 | 0.6 | 540 | 30 | 40 |
| MLG 5527 | 5 | 150 | 100 | -30 ~ +70 | 10 - 20 | 2 - 4 | 1.0 | 0.7 | 540 | 20 | 30 |
| MLG 5527A | 5 | 150 | 100 | -30 ~ +70 | 10 - 15 | - | 2.0 | 0.7 | 540 | 20 | 30 |
| MLG 5527T | 5 | 150 | 100 | -30 ~ +70 | 10 - 20 | 2.3 - 4.5 | - | 0.65 | 560 | 20 | 30 |
| MLG 5537 | 5 | 150 | 100 | -30 ~ +70 | 20 - 30 | 4 - 6 | 2.0 | 0.7 | 540 | 20 | 30 |
| MLG 5537A | 5 | 150 | 100 | -30 ~ +70 | 20 - 25 | - | 5.0 | 0.7 | 540 | 20 | 30 |
| MLG 5537B | 5 | 150 | 100 | -30 ~ +70 | 25 - 30 | - | 5.0 | 0.7 | 540 | 20 | 30 |
| MLG 5547 | 5 | 150 | 100 | -30 ~ +70 | 30 - 50 | 6 - 10 | 5.0 | 0.7 | 540 | 20 | 30 |
| MLG 5547AA | 5 | 150 | 100 | -30 ~ +70 | 30 - 35 | - | 5.0 | 0.7 | 540 | 20 | 30 |
| MLG 5548 | 5 | 150 | 100 | -30 ~ +70 | 50 - 100 | 10 - 20 | 20.0 | 0.8 | 540 | 20 | 30 |
| MLG 5558 | 5 | 150 | 100 | -30 ~ +70 | 100 - 200 | 20 - 35 | 20.0 | 0.8 | 560 | 20 | 30 |
| MLG 5558X | 5 | 150 | 100 | -30 ~ +70 | 150 - 300 | - | 30.0 | 0.8 | 560 | 20 | 30 |
| MLG 5569 | 5 | 150 | 100 | -30 ~ +70 | 600 - 1000 | - | 20.0 | 0.9 | 560 | 20 | 30 |

MEC

CdS (PHOTO RESISTOR) SPECIFICATIONS

SELECTION GUIDE

| MODEL NO. | DIMENSION | VOLTAGE APPLIED | POWER DISSIPATION | AMBIENT TEMPERATURE | LIGHT RESISTANCE | | DARK RESISTANCE | $\gamma_{100/10}$ | PEAK SENSITIVITY WAVELENGTH | RISE RESPONSE TIME | FALL RESPONSE TIME |
|-----------|-----------|-----------------|-------------------|---------------------|----------------------|-----------------------|-----------------|-------------------|-----------------------------|---------------------|---------------------|
| | mm | Vdc max. | mW max. | °C | 10 Lux (k Ω) | 100 Lux (k Ω) | (M Ω) | | (nm) | t _r (ms) | t _f (ms) |
| MLG 7506 | 7 | 150 | 150 | -30 ~ +70 | 4 - 6 | ≤ 1 | 0.2 | 0.6 | 560 | 20 | 30 |
| MLG 7516 | 7 | 150 | 150 | -30 ~ +70 | 5 - 10 | 1 - 2 | 0.5 | 0.6 | 560 | 20 | 30 |
| MLG 7527 | 7 | 150 | 150 | -30 ~ +70 | 10 - 20 | 2 - 4 | 1.0 | 0.7 | 560 | 20 | 30 |
| MLG 7537 | 7 | 150 | 150 | -30 ~ +70 | 20 - 30 | 4 - 6 | 3.0 | 0.7 | 560 | 20 | 30 |
| MLG 7547 | 7 | 150 | 150 | -30 ~ +70 | 30 - 50 | 6 - 10 | 5.0 | 0.7 | 560 | 20 | 30 |
| MLG 7548 | 7 | 150 | 150 | -30 ~ +70 | 50 - 100 | 10 - 20 | 10.0 | 0.8 | 560 | 20 | 30 |
| MLG 7558 | 7 | 150 | 150 | -30 ~ +70 | 100 - 200 | 20 - 35 | 20.0 | 0.8 | 560 | 20 | 30 |
| MLG 12506 | 12 | 150 | 200 | -30 ~ +70 | 4 - 6 | ≤ 1 | 0.2 | 0.6 | 560 | 20 | 30 |
| MLG 12516 | 12 | 150 | 200 | -30 ~ +70 | 5 - 10 | 1 - 2 | 0.5 | 0.6 | 560 | 20 | 30 |
| MLG 12527 | 12 | 150 | 200 | -30 ~ +70 | 10 - 20 | 2 - 4 | 1.0 | 0.7 | 560 | 20 | 30 |
| MLG 12537 | 12 | 150 | 200 | -30 ~ +70 | 20 - 30 | - | 3.0 | 0.7 | 560 | 20 | 30 |
| MLG 12547 | 12 | 150 | 200 | -30 ~ +70 | 30 - 50 | 2.3 - 4.5 | 5.0 | 0.7 | 560 | 20 | 30 |
| MLG 12548 | 12 | 150 | 200 | -30 ~ +70 | 50 - 100 | 4 - 6 | 2.0 | 0.8 | 560 | 20 | 30 |
| MLG 12558 | 12 | 150 | 200 | -30 ~ +70 | 100 - 200 | - | 20 | 0.8 | 560 | 20 | 30 |